

## Abstract

Title of the diploma thesis: **Derivates of Pyrazine as potential drugs III.**

Within this thesis the research focused on the current influence of tuberculosis in the world was carried out as well as its therapy. In the chemical literature, there were found some methods to prepare the substituted esters of pyrazincarboxylic acid. There was synthesized six substances of the character like esters pyrazincarboxylic acid, that had not been described so far. The compounds were synthesized in the CEM Discover microwave system with Explorer 24 autosampler and purified and separated using a CombiFlash ® Rf. Device. All the products were characterized by melting point, TLC, IR,  $^1\text{H}$ ,  $^{13}\text{C}$  NMR spectra. Series of substances were subjected to in vitro biological evaluation. The work result brings some new information on the antimycobacterial activity. In addition, the calculated log P values of newly prepared compounds are also presented in this thesis.